Performance Data Sheet

RGA5460BAA

General Information

Model	RGA5460BAA	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	1860	1800					
	Watts	354	371					
	Amps	3.33	3.49					
	Lb/h	24.8	23.5					
-10	Btu/h	2200	2100	1990				
	Watts	364	385	406				
	Amps	3.41	3.60	3.80				
	Lb/h	28.4	26.9	25.4				
-5	Btu/h	2590	2440	2290	2130			
	Watts	373	397	422	447			
	Amps	3.47	3.69	3.92	4.14			
	Lb/h	32.5	30.9	29.3	27.6			
0	Btu/h	3020	2820	2620	2430	2220		
	Watts	379	407	435	464	492		
	Amps	3.52	3.77	4.02	4.28	4.53		
	Lb/h	37.1	35.4	33.6	31.8	29.9		
5	Btu/h	3490	3250	3010	2760	2520		
	Watts	384	415	447	478	510		
	Amps	3.54	3.83	4.11	4.40	4.68		
	Lb/h	42.2	40.3	38.4	36.4	34.4		
10	Btu/h	4000	3720	3430	3140	2850	2560	2260
	Watts	386	421	456	491	527	562	598
	Amps	3.56	3.87	4.18	4.50	4.82	5.13	5.45
	Lb/h	47.8	45.8	43.7	41.6	39.4	37.2	34.8
15	Btu/h	4560	4230	3900	3560	3230	2890	2550
	Watts	386	424	463	502	541	580	619
	Amps	3.55	3.89	4.24	4.58	4.93	5.28	5.63
	Lb/h	53.8	51.7	49.5	47.2	44.9	42.5	40.1
20	Btu/h	5160	4780	4410	4030	3650	3260	2880
	Watts	384	426	468	510	553	596	639
	Amps	3.53	3.90	4.28	4.65	5.03	5.41	5.79
	Lb/h	60.4	58.1	55.7	53.3	50.9	48.4	45.8

25	Btu/h	5810	5380	4960	4530	4110	3680	3250
	Watts	379	425	471	517	563	609	656
	Amps	3.49	3.89	4.30	4.71	5.11	5.52	5.93
	Lb/h	67.4	64.9	62.5	59.9	57.3	54.7	51.9
30	Btu/h	6500	6030	5560	5090	4610	4140	3670
	Watts	373	422	471	521	571	620	670
	Amps	3.43	3.87	4.30	4.74	5.18	5.62	6.06
	Lb/h	74.8	72.3	69.6	67.0	64.2	61.5	58.6
35	Btu/h	7230	6720	6200	5680	5160	4650	4130
	Watts	364	417	470	523	576	630	683
	Amps	3.36	3.82	4.29	4.76	5.23	5.70	6.17
	Lb/h	82.8	80.1	77.3	74.5	71.6	68.7	65.7
40	Btu/h	8010	7450	6890	6320	5760	5190	4630
	Watts	352	409	466	523	580	637	694
	Amps	3.27	3.76	4.26	4.76	5.26	5.76	6.26
	Lb/h	91.2	88.3	85.4	82.5	79.5	76.4	73.3
45	Btu/h	8840	8230	7620	7010	6400	5790	5170
	Watts	338	399	459	520	581	641	702
	Amps	3.16	3.69	4.22	4.74	5.27	5.81	6.34
	Lb/h	100	97.1	94.0	90.9	87.8	84.6	81.3
50	Btu/h	9710	9060	8400	7740	7080	6430	5770
	Watts	322	387	451	515	579	644	708
	Amps	3.04	3.59	4.15	4.71	5.27	5.83	6.40
	Lb/h	109	106	103	99.8	96.5	93.2	89.8
55	Btu/h	10600	9930	9220	8520	7810	7110	6400
	Watts	304	372	440	508	576	644	712
	Amps	2.89	3.48	4.07	4.66	5.25	5.85	6.44
	Lb/h	119	116	113	109	106	102	98.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.563142E+03	1.583082E+02	1.510992E+00	5.003046E+01
C2	1.625258E+02	-4.623873E+00	-4.162428E-02	1.212256E+00
C3	-1.935034E+01	2.765304E+00	2.510766E-02	-1.636794E-01
C4	9.001329E-01	-4.645087E-02	-3.473754E-04	9.924882E-03
C5	-9.223989E-01	7.277213E-02	6.168479E-04	-3.243465E-03
C6	3.951556E-03	-4.461386E-04	-2.809584E-06	1.507264E-04
C7	5.994682E-04	-5.095344E-05	-2.006752E-08	-3.732260E-06
C8	-6.085018E-04	5.739861E-05	1.218503E-07	-2.387436E-06
C9	1.732612E-04	-1.792459E-05	-6.491153E-08	2.606219E-06
C10	-4.277239E-05	4.856548E-06	2.945736E-08	-1.563542E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature